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The Peroxide Company

SECTION 1: Identification of the substance/mixture and of the company/undertaking

```
· 1.1 Product identifier
```

PEROXAN ME-50 LM2

· Trade name:	PEROXAN ME-50 LM2
1.2 Relevant identified uses of	f the substance or mixture and uses advised against
	No further relevant information available.
· Application of the substance	1
the mixture	Reaction initiator
	For industrial use
· 1.3 Details of the supplier of the	ne safety data sheet
Manufacturer/Supplier:	PERGAN GmbH
	Hilfsstoffe für industrielle Prozesse
	Schlavenhorst 71
	D-46395 Bocholt
	Tel: +49 2871 9902-0
	Fax: +49 2871 9902-50
· Further information obtainab	le
from:	Environment protection / Security of labour
	Competent person:
	* Sales Manager Germany: Mr. Ansgar Pappenheim, e-mail: a pappenheim@pergan.com
	* Export Sales Manager: Mr. Dr. Thomas Philipps, e-mail: dr.philipps@pergan.com
	* Environment protection / : Mr. Christoph Wilting, e-mail: c.wilting@pergan.com
	Security of labour
1.4 Emergency telephone	
number:	- Tel: +49 2871 9902-0

SECTION 2: Hazards identification

SECTION 2. Hazarus identi	
Acute Tox. 4H332 HarmfSkin Corr. 1BH314 CauseEye Dam. 1H318 CauseSkin Sens. 1H317 May caMuta. 2H341 SuspeCarc. 2H351 SuspeSTOT SE 3H335 May ca	g may cause a fire.
 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms 	The product is classified and labelled according to the CLP regulation.
· Signal word	Danger
 Hazard-determining components of labelling: 	Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane tert-butyl hydroperoxide hydrogen peroxide solution
· Hazard statements	H242 Heating may cause a fire. H332 Harmful if inhaled. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
· Precautionary statements	P1412 Hamilui to aquatic me with rong fasting effects. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P234 Keep only in original packaging. P264 Wash thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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	(Contd. of page 1)
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P410	Protect from sunlight.
P411+P235	Store at temperatures not exceeding +30°C. Keep cool.
P420	Store separately.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other hazards	v
Results of PBT and vPvB assessment	

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· PBT: · vPvB:

· Dangerous components:		00 400/
CAS: 1338-23-4 EC number: 700-954-4 Reg-No.: 01-2119514691-43	Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane Org. Perox. D, H242; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332	30-40%
CAS: 75-91-2 EINECS: 200-915-7 Reg-No.: 01-2119446670-40	tert-butyl hydroperoxide Flam. Liq. 3, H226; Org. Perox. F, H242; Acute Tox. 3, H311; Acute Tox. 2, H330; Muta. 2, H341; Carc. 2, H351; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317 Specific concentration limits: Eye Dam. 1; H318: C ≥ 1 % Skin Sens. 1; H317: C ≥ 0,1 % STOT SE 3; H335: C ≥ 5 %	2,5-5%
CAS: 7722-84-1 EINECS: 231-765-0 Index number: 008-003-00-9 Reg-No.: 01-2119485845-22	hydrogen peroxide solution Ox. Liq. 1, H271; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 70 % Skin Corr. 1B; H314: 50 % ≤ C < 70 % Skin Irrit. 2; H315: 35 % ≤ C < 50 % Eye Dam. 1; H318: C ≥ 8 % Eye Irrit. 2; H319: 5 % ≤ C < 8 % STOT SE 3; C ≥ 35 % Ox. Liq. 1; H271: C ≥ 70 % Ox. Liq. 2; H272: 50 % ≤ C < 70 %	1-2,5%
CAS: 107-41-5 EINECS: 203-489-0 Index number: 603-053-00-3 Reg-No.: 01-2119539582-35	2-methylpentane-2,4-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-2,5%
· Additional information:	For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

· 4.1 Description of first aid meas	sures	
· General information:	Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observati hours after the accident. Take care of personal protection for the first aider.	on for at least 48
· After inhalation:	Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet.	
· After skin contact:	Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing.	
· After eye contact: · After swallowing:	Rinse opened eye for several minutes under running water. Then consult a doctor. Call for a doctor immediately. Drink plenty of water and provide fresh air. Call for a doctor immediately.	
 4.2 Most important symptoms and effects, both acute and delayed 	No further relevant information available.	
		(Contd. on page 3)

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4.3 Indication of any immediate	(Contd. of pa
medical attention and special treatment needed	No further relevant information available.
SECTION 5: Firefighting mea	Isures
5.1 Extinguishing media	
	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
the substance or mixture	Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.
5.3 Advice for firefighters	
Protective equipment:	Mouth respiratory protective device.
Additional information	Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray.
	Self-protection first!
SECTION 6: Accidental relea	se measures
6.1 Personal precautions,	
protective equipment and	
emergency procedures	Keep away from ignition sources.
emergency procedures	In case of further temperature should be cooled with waterspray from a safe distance.
emergency procedures	In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials.
	In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials. Wear protective equipment. Keep unprotected persons away.
	In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials.
	In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials. Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:	In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials. Wear protective equipment. Keep unprotected persons away. Inform respective authorities in case of seepage into water course or sewage system.
6.2 Environmental precautions:	In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials. Wear protective equipment. Keep unprotected persons away. Inform respective authorities in case of seepage into water course or sewage system.
6.2 Environmental precautions:6.3 Methods and material for	In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials. Wear protective equipment. Keep unprotected persons away. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
6.2 Environmental precautions:6.3 Methods and material for	In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials. Wear protective equipment. Keep unprotected persons away. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before
6.2 Environmental precautions:6.3 Methods and material for	In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials. Wear protective equipment. Keep unprotected persons away. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before disposal.
6.2 Environmental precautions:6.3 Methods and material for	In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials. Wear protective equipment. Keep unprotected persons away. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % befor disposal. Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government
6.2 Environmental precautions:6.3 Methods and material for	In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials. Wear protective equipment. Keep unprotected persons away. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % befor disposal. Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.
6.2 Environmental precautions:6.3 Methods and material for containment and cleaning up:	In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials. Wear protective equipment. Keep unprotected persons away. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % befor disposal. Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.
6.2 Environmental precautions:6.3 Methods and material for containment and cleaning up:	In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials. Wear protective equipment. Keep unprotected persons away. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % befor disposal. Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations. See Section 7 for information on safe handling.

SECTION 7: Handling and storage

explosion protection:

 7.1 Precautions for safe handling 	Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols. Wear suitable respiratory protective device when decanting larger quantities without extractor facilities. Do not refill residue into storage receptacles. Restrict the quantity stored at the work place. Use only in well ventilated areas. Before break and at the end of work bands should be thoroughly washed
	Before break and at the end of work hands should be thoroughly washed. Only use tools made of suitable materials (e. g. polyethylene or stainless steel).
	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy- metal compounds and amines).
	While using do not eat, drink or smoke. Do not generate flames or sparks.
	Keep product and emptied container away from heat and sources of ignition. Avoid shock and friction.
	Take precautionary measures against static discharges.
	Do not smoke.
Information about fire - and	_

Protect from heat. Protect against electrostatic charges. Prevent impact and friction. Printing date 29.06.2023

Safety data sheet according to 1907/2006/EC, Article 31

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	Use explosion-proof apparatus / fittings and spark-proof tools.
	Fumes can combine with air to form an explosive mixture.
	Wear shoes with conductive soles.
	Formation of flammable or explosive gas/air-mixtures is possible.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Keep ignition sources away - Do not smoke.
7.2 Conditions for safe storage,	including any incompatibilities
Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
· Requirements to be met by	
storerooms and receptacles:	Store only in the original receptacle.
	Prevent any seepage into the ground.
	Use only receptacles specifically permitted for this substance/product.
· Information about storage in	
one common storage facility:	Do not store or park organic peroxide together with heavy metal compounds and amines.
	Store away from foodstuffs, drinks and feeding stuffs.
 Further information about 	
storage conditions:	Keep container tightly sealed.
	Protect from heat and direct sunlight.
	Protect from contamination.
	Store under lock and key and out of the reach of children.
	Storage in a collecting room is required.
· Recommended storage	
temperature (To maintain	
quality):	0 +30 °C
Storage class:	5.2
7.3 Specific end use(s)	No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control	parameters
---------------	------------

7722-84-1	nts with limit values that hydrogen peroxide solu	ition	
OEL (Irela		Short-term value: 3 mg/m³, 2 ppm Long-term value: 1,5 mg/m³, 1 ppm	
		•	
WEL (Great Britain) Short-term value Long-term value:		ie: 1,4 mg/m ³ , 1 ppm	
107-41-5 2	2-methylpentane-2,4-diol		
OEL (Ireland) Short-term value: 125 mg/m ³ , 25 ppm			
WEL (Grea	at Britain) Short-term valu	ue: 123 mg/m ³ , 25 ppm	
,	Long-term valu	ie: 123 mg/m³, 25 ppm	
· DNELs			
		ne-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	
Dermal	DNEL Longterm System	1,43 mg/kg bw/day (Worker)	
Inhalative	DNEL Acute Systemic	7,55 mg/m3	
	DNEL Longterm System	2,52 mg/m3 (Worker)	
	rt-butyl hydroperoxide		
Dermal	DNEL Longterm System	0,21 mg/kg bw/day (Worker)	
Inhalative	DNEL Acute Systemic	85,2 mg/m3 (Worker)	
	DNEL Acute Local	28,4 mg/m3 (Worker)	
	DNEL Longterm System	2,2 mg/m3 (Worker)	
	DNEL Longterm Local	0,58 mg/m3 (Worker)	
7722-84-1	hydrogen peroxide solu	ition	
Inhalative	DNEL Longterm Local	1,4 mg/m3 (Worker)	
107-41-5 2	2-methylpentane-2,4-dio		
Dermal	DNEL Longterm System	42 mg/kg bw/day (Worker)	
Inhalative	DNEL Longterm System	44,4 mg/m3 (Worker)	
· PNECs			
1338-23-4	Reaction mass of butar	ne-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	
PNEC Mar	rinewater sed 0,009 mg/k	ig sed dw	
		(Contd. on page	



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PNEC Freshwater	0,006 mg/l (AF 1.000)	
PNEC Freshwater sed	0,088 mg/kg sed dw	
PNEC Soil	0,014 mg/kg soil dw	
PNEC STP	1,2 mg/l (AF 10)	
PNEC Marinewater	0,001 mg/l (AF 10.000)	
75-91-2 tert-butyl hydro	pperoxide	
PNEC Marinewater sed	0,001 mg/kg sed dw	
PNEC Freshwater	0,002 mg/l (AF 1.000)	
PNEC Seawater	0 mg/l (AF 10.000)	
PNEC Freshwater sed	0,006 mg/kg sed dw (-)	
PNEC Soil	0,166 mg/kg soil dw (AF 1.000)	
PNEC STP	0,17 mg/l (AF 100)	
7722-84-1 hydrogen pe	roxide solution	
PNEC Marinewater sed	0,047 mg/kg sed dw	
PNEC Freshwater	0,013 mg/l (AF 50)	
PNEC Freshwater sed	0,047 mg/kg sed dw	
PNEC Soil	0,002 mg/kg soil dw	
PNEC STP	4,66 mg/l (AF 100)	
PNEC Marinewater	0,013 mg/l (AF 50)	
107-41-5 2-methylpenta		
PNEC Marinewater sed	0,159 mg/kg sed dw (-)	
PNEC Freshwater	0,429 mg/l (AF 1.000)	
PNEC Freshwater sed	1,59 mg/kg sed dw (-)	
PNEC Soil	0,066 mg/kg soil dw (-)	
PNEC STP	20 mg/l (AF 10)	
PNEC Marinewater	0,043 mg/l (AF 10.000)	
· Additional informatio	n: The lists valid during the making were used as basis.	
 8.2 Exposure controls Appropriate engineeri controls Individual protection r General protective an 	No further data; see section 7. measures, such as personal protective equipment	
hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals.	
	Keep away from foodstuffs, beverages and feed.	
	Immediately remove all soiled and contaminated clothing	
	Wash hands before breaks and at the end of work. Store protective clothing separately.	
	Avoid close or long term contact with the skin.	
	Avoid contact with the eyes and skin.	
	Do not eat, drink, smoke or sniff while working.	
	Use skin protection cream for skin protection. Be sure to clean skin thoroughly after work and before breaks.	
· Respiratory protectio		
	exposure use self-contained respiratory protective device.	
	Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.	
	Filter A2	
 Hand protection 	Only use chemical-protective gloves with CE-labelling of category III. Selection of the glove material on consideration of the penetration times, rates of diffusion and the	
	degradation	
	Protective gloves	
 Material of gloves 	The selection of the suitable gloves does not only depend on the material, but also on further marks of	
	quality and varies from manufacturer to manufacturer. Butyl rubber, BR	
	Fluorocarbon rubber (Viton)	
	Nitrile rubber, NBR	
.	Neoprene	
 Penetration time of g material 	glove The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be	
material	observed.	
 Eye/face protection 		
	Tightly sealed goggles	
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· Body protection:



Protective work clothing

SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties · General Information · Colour: Colourless · Odour: Characteristic · Odour threshold: Not determined. · Melting point/freezing point: Not applicable. Boiling point or initial boiling point and boiling range Not applicable. · Flammability Not applicable. · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. · Flash point: Not determined. Decomposition temperature: +60 °C (SADT) Not determined. · pH · Viscosity: Kinematic viscosity Not determined. · Dynamic: Not determined · Solubility water: Undetermined. · Partition coefficient n-octanol/water (log value) not determined · Vapour pressure: Not determined. · Density and/or relative density · Density: Not determined. Relative density Not determined. Vapour density Not determined. · 9.2 Other information Appearance: Fluid · Form: · Important information on protection of health and environment, and on safety. Ignition temperature: Product is not selfigniting. Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible. · Change in condition · Evaporation rate Not determined. Information with regard to physical hazard classes · Explosives Void Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void · Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void \cdot Substances and mixtures, which emit flammable gases in contact with water Void Oxidising liquids Void Oxidising solids Void · Organic peroxides Heating may cause a fire. · Corrosive to metals Void Desensitised explosives Void Other safety characteristics Active oxygen 9,2 - 9,5 %

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SECTION 10: Stability and reactivity 10.1 Reactivity No further relevant information available. · 10.2 Chemical stability Thermal decomposition / conditions to be avoided: SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous selfaccelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT. No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat. · 10.3 Possibility of hazardous reactions Self-accelerating decomposition at SADT. 10.4 Conditions to avoid No further relevant information available. · 10.5 Incompatible materials: Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e.g. heavy-metal compounds and amines). · 10.6 Hazardous decomposition products: Hydrocarbons, carbondioxide and -monoxid. No hazardous decomposition products if used and stored according to specifications. · Additional information: Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Harmful if inhaled Acute toxicity · LD/LC50 values relevant for classification: 1338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane LD50 1.017 mg/kg (rattus) Oral 75-91-2 tert-butyl hydroperoxide LD50 805 mg/kg /(70%) (rattus) Oral 633 mg/kg /(70%) (cuniculosus) LD50 Dermal Inhalative LC50 / 4h 1,2 mg/l /(70%) (rattus) 107-41-5 2-methylpentane-2,4-diol Oral LD50 >2.000 mg/kg (rattus) LD50 Dermal >2.000 mg/kg (cuniculosus) Skin corrosion/irritation Causes severe skin burns and eye damage. Serious eye damage/irritation Causes serious eye damage. Respiratory or skin sensitisation May cause an allergic skin reaction. Germ cell mutagenicity Suspected of causing genetic defects. Carcinogenicity Suspected of causing cancer. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure May cause respiratory irritation. STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met. 11.2 Information on other hazards Endocrine disrupting properties

SECTION 12: Ecological information

None of the ingredients is listed.

· 12.1 Toxicit	· 12.1 Toxicity	
· Aquatic toxicity:		
1338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane		
LC50 / 96h	LC50 / 96h 44,2 mg/l (-)	
75-91-2 tert	75-91-2 tert-butyl hydroperoxide	
EC50 / 72h	2,1 mg/l /(70%) (selenastrum capricornutum)	
LC50 / 96h	42,3 mg/l /(70%) (pimephales promelas)	
EC50	24,3 mg/l /(70%) (activa sludge)	
EC50 / 48h	EC50 / 48h 20 mg/l /(70%) (daphnia magna)	

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		(Contd. of page
107-41-5 2-methylpentane-2,4		
LC50 / 96h 8.510 mg/l (gambi		
12.2 Persistence and degrad	ability	
Degree of elimination:		
· Classification:		
	butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	
Degradation (Readily biodegr		
75-91-2 tert-butyl hydroperox		
Degradation (Not readily biod	egradable) (OECD 301 D)	
7722-84-1 hydrogen peroxide		
Degradation (Readily biodegr	adable)	
107-41-5 2-methylpentane-2,4	4-diol	
Degradation (Readily biodegr	adable) (OECD 301 F)	
12.3 Bioaccumulative potent	ial	
· Partition coefficient: nOcta	nol/water: [Log Kow]	
1338-23-4 Reaction mass of b	outane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	2,04 (25°C)
75-91-2 tert-butyl hydroperoxide		0,85 (30 °C
7722-84-1 hydrogen peroxide solution		-1,57 (20°C
107-41-5 2-methylpentane-2,4-diol <		< 1
110-05-4 di-tert-butyl peroxid	e	3,2 (22°C)
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPv		
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria accord	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria accord	ling to REACH, annex XIII.
12.6 Endocrine disrupting	-	
properties 12.7 Other adverse effects	The product does not contain substances with endocrine disrupting prop	erties.
· 12.7 Other adverse effects	Harmful to fish	
· Additional ecological inform		
· General notes:	Must not reach sewage water or drainage ditch undiluted or unneutralise	ed.
	Harmful to aquatic organisms	
	Water hazard class 3 (German Regulation) (Self-assessment): extremely	
	Do not allow product to reach ground water, water course or sewage sys	
	Danger to drinking water if even extremely small quantities leak into the	ground.

· Uncleaned packaging: · Recommendation:	This material and its container must be disposed of as hazardous waste.
· Waste disposal key:	Must not be disposed together with household garbage. Do not allow product to reach sewage system. Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-number.
13.1 Waste treatment methods Recommendation	After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations.
SECTION 13: Disposal consi	derations

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3105
· 14.2 UN proper shipping name · ADR	UN3105 ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
· IMDG, IATA	ORGANIC PEROXIDÈ ŤYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
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14.3 Transport hazard class(es)	
ADR	
· Class	E 2 (D1) Organia paravidas
	5.2 (P1) Organic peroxides. 5.2
· IMDG, IATA	
· Class · Label	5.2 Organic peroxides. 5.2
14.4 Packing group	5.2
· ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
· Marine pollutant:	No
14.6 Special precautions for user	Warning: Organic peroxides.
Hazard identification number (Kemler code):	- D
Stowage Category Stowage Code	SW1 Protected from sources of heat.
· Segregation Code	SG35 Stow "separated from" SGG1-acids
	SG36 Stow "separated from" SGG18-alkalis.
	SG72 See 7.2.6.3.2.
14.7 Maritime transport in bulk according to IMO instru	uments Not applicable.
Transport/Additional information:	
· ADR	
Limited quantities (LQ)	125 ml
· Excepted quantities (EQ)	Code: E0
Transport category	Not permitted as Excepted Quantity 2
• Tunnel restriction code	2 D
· RID / GGVSEB:	like ADR
· IMDG · Limited quantities (LQ)	125 ml
Excepted quantities (EQ)	Code: E0
Excepted quantities (Ex)	Not permitted as Excepted Quantity

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · Directive 2012/18/EU · Named dangerous substances - ANNEX I None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES · Seveso category · Qualifying quantity (tonnes) for the application of lower-tier 50 t requirements Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t **REGULATION (EC) No** 1907/2006 ANNEX XVII Conditions of restriction: 3 DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex Ш None of the ingredients is listed.

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Printing date 29.06.2023

Safety data sheet according to 1907/2006/EC, Article 31

Version: 5 (replaces version 4)



Revision: 26.06.2023

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Trade name: PEROXAN ME-50 LM2

· REGULATION (EU) 2	2019/1148
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Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
 None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

5)	•
· Relevant phrases	 H226 Flammable liquid and vapour. H242 Heating may cause a fire. H271 May cause fire or explosion; strong oxidiser. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H330 Fatal if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. Environment protection / Security of labour
· Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
· Version number of previous	
version:	4
• Abbreviations and acronyms:	RD: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) (CAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International AI Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inter of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LCS0: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent D50: Lethal concentration, 50 percent LD50: Lethal concentration (SEACH) VPUB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 1 Org, Perox. D: Organic peroxides – Type C/D Org, Perox. D: Organic peroxides – Type E/F Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 4: Acute toxicity – Category 1 Skin Corr. 18: Skin corrosion/irritation – Category 1 Skin Corr. 18: Skin corrosion/irritation – Category 1 Skin Corr. 10: Skin corrosion/irritation – Category 1 Skin Corr. 10: Skin corrosion/irritation – Category 2 Skin Corr. 10: Skin corrosion/irritation – Category 2 Skin Sens. 1: Skin sension/irritation – Category 2 Skin Sens. 1: Skin sension in the course
* * Data compared to the	

* Data compared to the previous version altered.